

WHAT IS CLAIMED IS:

1 1. A base station modulator/demodulator for constituting
2 a mobile communication system and sending ATM cells to a higher
3 rank station and receiving ATM cells from the higher rank
4 station, said base station modulator/demodulator comprising:

5 receive means for terminating, among ATM cells received
6 from the higher rank station through a leased line, ATM cells
7 addressed to the base station;

8 first send means for sending, among the ATM cells
9 received from the higher rank station through the leased line,
10 ATM cells addressed to another base station to the another base
11 station; and

12 second send means for multiplexing ATM cells of a
13 plurality of base stations, said base station and said another
14 base station, and sending the multiplexed cells to the higher
15 rank station through the leased line.

1 2. The base station modulator/demodulator according to
2 claim 1, wherein

3 the receive means identifies, from ATM cells received
4 from the higher rank station through the leased line, ATM cells
5 addressed to said base station based on a virtual path
6 identifier in an ATM header preset in the base station, and
7 terminates the identified ATM cells, and

8 the first send means identifies, from ATM cells received
9 from the higher rank station through the leased line, ATM cells
10 addressed to said another base station based on a virtual path

1 6. An ATM cell send/receive method in a mobile
2 communication system for performing send/receive of ATM cells

3 between a higher rank station and a base station, said method
4 comprising the steps of:

5 terminating, among ATM cells received from the higher
6 rank station through a leased line, ATM cells addressed to the
7 base station;

8 sending, among the ATM cells received from the higher
9 rank station through the leased line, ATM cells addressed to
10 another base station to the another base station; and

11 multiplexing ATM cells of a plurality of base stations,
12 said base station and said another base station, and sending
13 the multiplexed cells to the higher rank station through the
14 leased line.

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